



DoD Global Influenza and Other Respiratory Viral Pathogens Week 50 (12 Dec – 18 Dec) Weekly Surveillance Report



SUMMARY:

Number of new isolates for Week 50: 6 Influenza A; 0 Influenza B

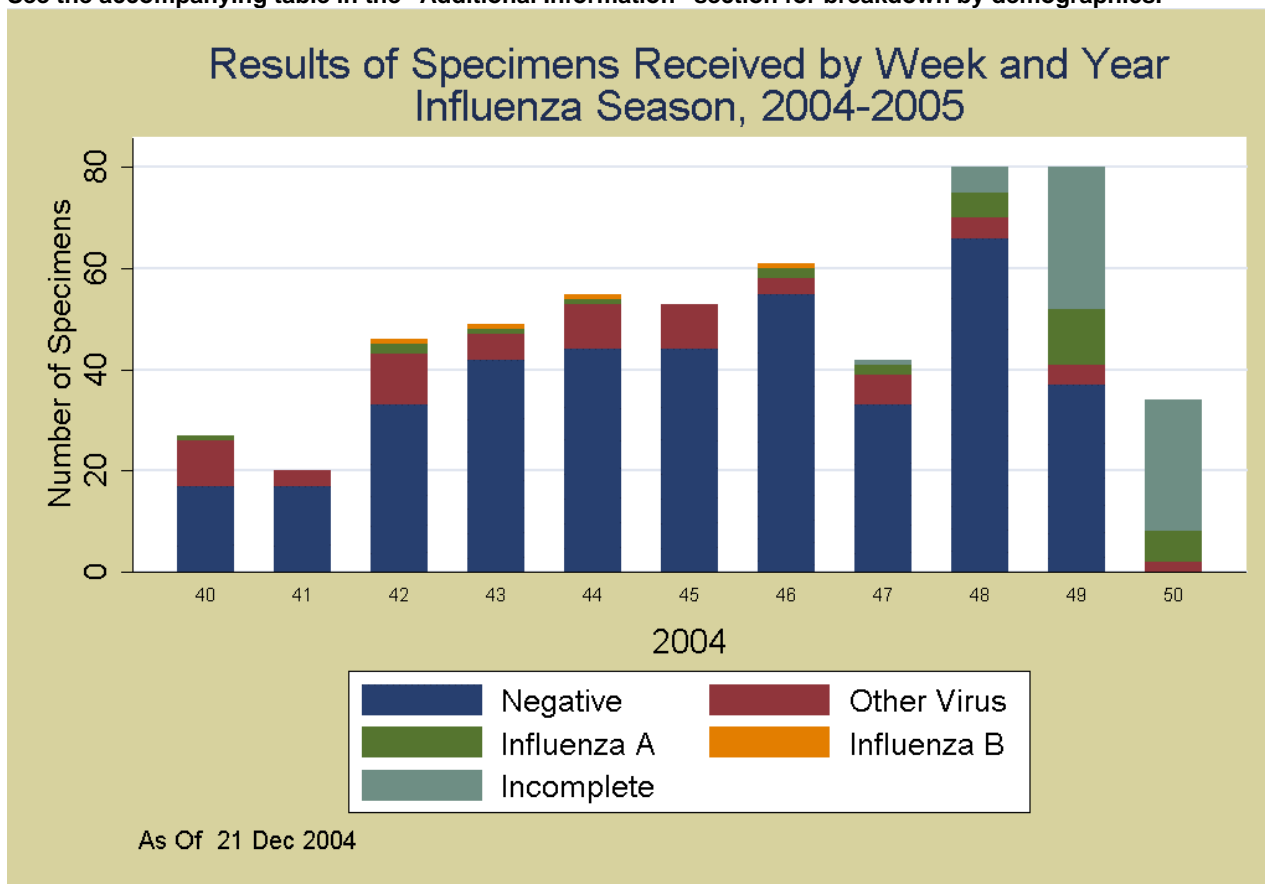
The new isolates consist of 3 from Ft. Drumm, 2 from McGuire AFB, and 1 from Travis AFB.

In addition, 4 influenza A isolates were newly identified during Week 50, but were collected prior to that week: 1 from Bremerton NAS, 2 from Elmendorf AFB, and 1 from Ft. Drum.

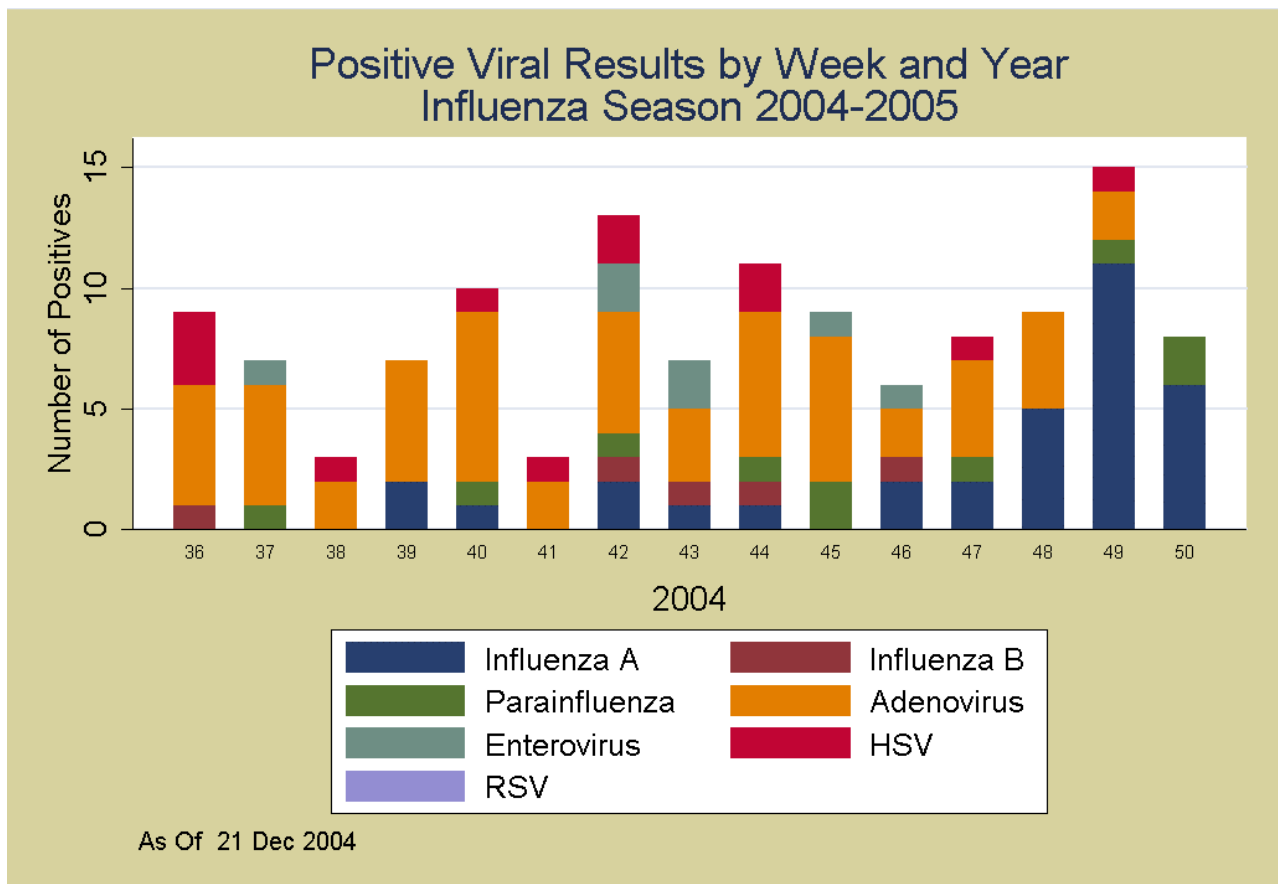
Since **3 October 2004**, the Epidemiological Surveillance Division (AFIOH/SDE) has processed 489 specimens as part of the influenza surveillance program. Of those specimens, 31 (6%) were positive for influenza A and 4 (1%) were positive for influenza B.

In addition, 60 specimens are still being processed.

See the accompanying table in the “Additional Information” section for breakdown by demographics.



OVERALL DOD RESPIRATORY VIRAL SURVEILLANCE:

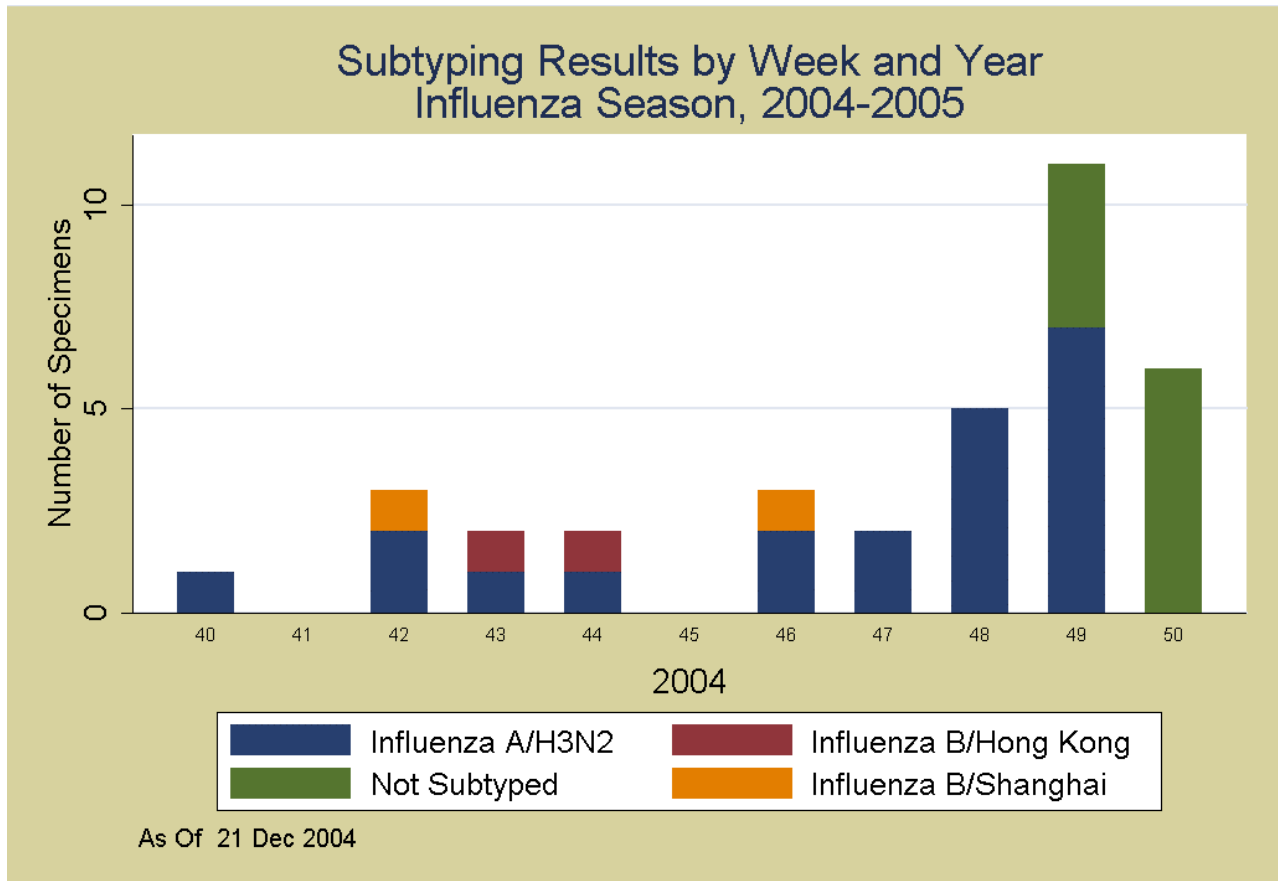


Note: Graphs do not include data from the NHRC, which conducts Febrile Respiratory Illness (FRI) surveillance among recruit populations. NHRC compiles this data into a separate report. For more information, visit the NHRC website at <http://www.nhrc.navy.mil/geis/>

SUBTYPING:

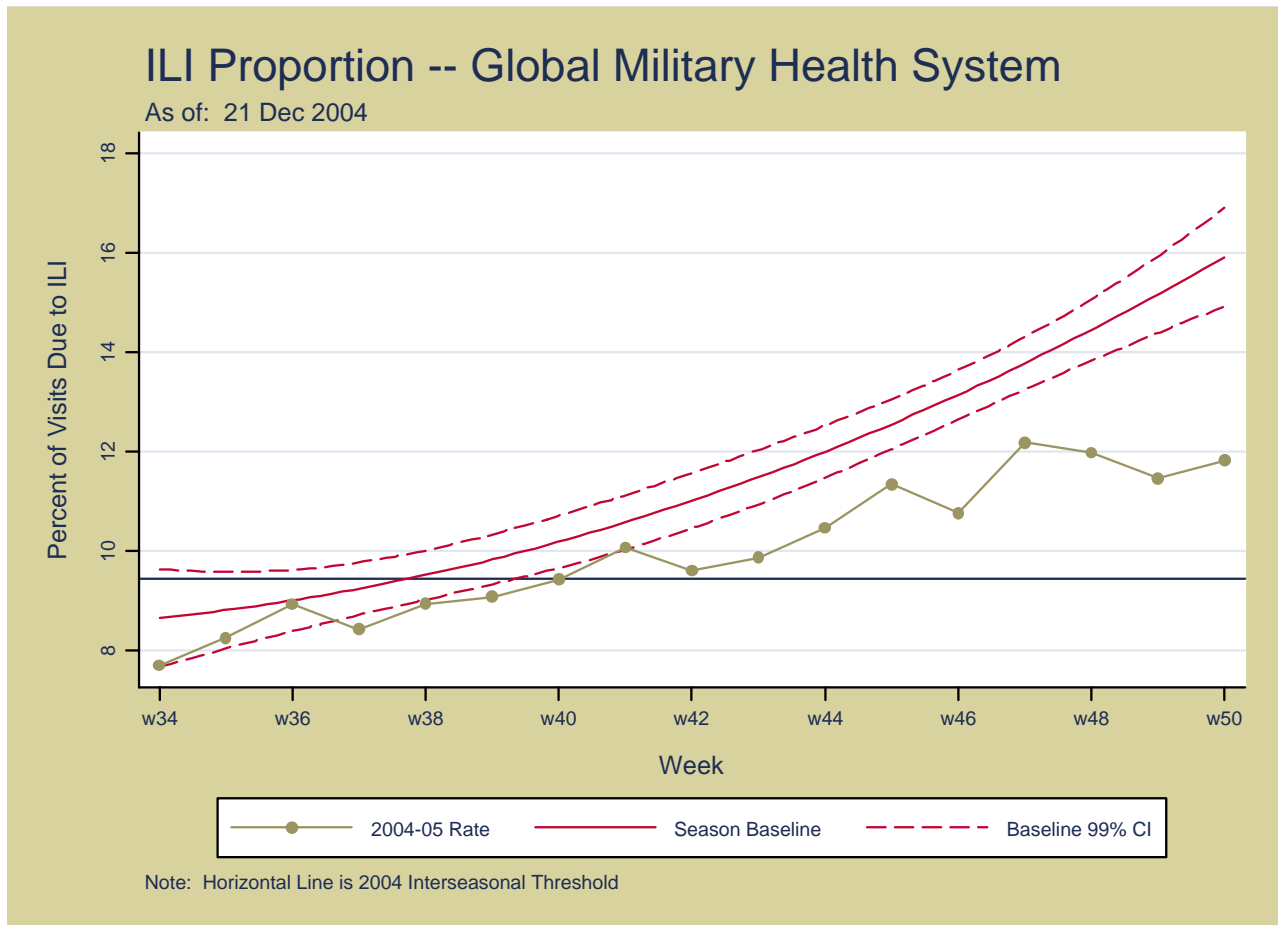
Since **3 October 2004**, we have subtyped 25 isolates using either polymerase chain reaction (PCR) or hemagglutination-inhibition (HI): 21 are Influenza A/H3N2, 2 are Influenza B/Hong Kong, and 2 are Influenza B/Shanghai. The following graph summarizes overall subtyping results. Subtyping results for individual bases can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/>



INFLUENZA-LIKE ILLNESS:

This graph plots the percentage of weekly outpatient visits at military installations that had an ICD-9 code correlating with Influenza-Like Illness as defined by ESSENCE. Visit and coding data were taken from ESSENCE. A seasonal baseline and 99% confidence intervals are included for comparison. The baseline was calculated from ESSENCE data for the previous 2 years. Note that the ESSENCE definition for Influenza-Like Illness differs from the CDC definition. See our website for a detailed explanation.



Graphs for individual bases and regions can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/ILChartsform.cfm>

NATIONAL INFLUENZA ACTIVITY: CDC

<http://www.cdc.gov/ncidod/diseases/flu/weeklychoice.htm>

During week 49 (the latest report available), CDC reported a low level of influenza activity in the United States. Laboratory surveillance identified 55 specimens (3.1%) positive for influenza. Of these, 18 were influenza A (H3N2), 26 were influenza A (not subtyped), and 11 were influenza B. New York reported wide influenza activity. Florida, Kentucky, and New York City reported regional activity. Forty-three states, the District of Columbia, and Puerto Rico reported sporadic or local influenza activity, and 4 states had no activity.

INTERNATIONAL INFLUENZA ACTIVITY: WHO

<http://www.who.int/GlobalAtlas/DataQuery/home.asp>

Week in review: **Week 50**

South America: Argentina reported sporadic activity.

Asia: China reported sporadic activity.

Europe: Belgium, France, Germany, Italy, Latvia, Norway, Sweden, Switzerland, and the Ukraine reported sporadic activity.

North America: The USA reported a local outbreak.

Africa: Currently no activity.

ADDITIONAL INFORMATION:

- **Avian Influenza Update:** As of October 2004, WHO had no further reports of human cases on their website.

Please direct any questions or comments to: influenza@brooks.af.mil

DEMOGRAPHIC SUMMARY:

Table 1. Influenza Isolates by Sentinel Site

# POSITIVES SUBMITTED BY SENTINEL SITES	New Isolates*		Cumulative (since 3 October 2004)		
	A	B	A	B	Specimens Submitted
Al Udeid AB, Qatar	0	0	0	0	1
Andersen AFB, Guam	0	0	3	0	6
Andrews AFB, MD	0	0	0	0	2
Aviano AB, Italy	0	0	0	0	4
Bremerton NS, WA	1	0	1	0	4
CGS Ketchikan, AK	0	0	0	0	0
Elmendorf AFB, AK	2	0	8	0	18
McGuire AFB, NJ	2	0	2	0	8
Ganci AB, Kyrg	0	0	0	0	0
Incirlik AB, Turkey	0	0	0	0	2
Kadena AB, Japan	0	0	0	0	1
Kunsan AB, Korea	0	0	0	0	2
RAF Lakenheath, UK	0	0	0	0	36
Landstuhl RMC, Germany	0	0	0	0	0
Maxwell AFB, AL	0	0	0	0	15
Misawa AB, Japan	0	0	0	0	13
NAB Little Creek, VA	0	0	0	0	5
NS Pearl Harbor/Hickam, HI	0	0	0	0	0
NH Yokosuka, Japan	0	0	0	0	2
NMC San Diego, CA	0	0	0	0	5
Osan AB, Korea	0	0	0	0	4
Ramstein AB, Germany	0	0	0	0	9
Scott AFB, IL	0	0	0	0	55
Sheppard AFB, TX	0	0	0	0	111
Travis AFB, CA	1	0	1	0	11
Tripler AMC, HI	0	0	1	3	4
US Air Force Academy, CO	0	0	0	1	6
Yokota AB, Japan	0	0	0	0	5
TOTALS for SENTINEL SITES	6	0	16	4	256

Table 2. Influenza Isolates by Overseas Labs

# POSITIVES SUBMITTED BY OVERSEAS LABS	New Isolates*		Cumulative (since 3 October 2004)		
	A	B	A	B	Specimens Submitted
AFRIMS, Thailand	0	0	0	0	0
AFRIMS, Nepal	0	0	0	0	0
NMRC-D, Peru	0	0	0	0	0
NMRC-D, Nicaragua	0	0	0	0	0
TOTALS for OVERSEAS LABS	0	0	0	0	0

Comments: * Newly identified; may include specimens collected prior to current week

Table 3. Respiratory specimens received

Location	Total # of Specimens Received	
	Current Week	Cumulative*
ALL SITES	45	544
NORTH AMERICA	33	405
PACOM	6	71
EUCOM	6	57
CENTCOM	0	1
SOUTH AMERICA	0	10

Comments: *Received since 3 October 2004.

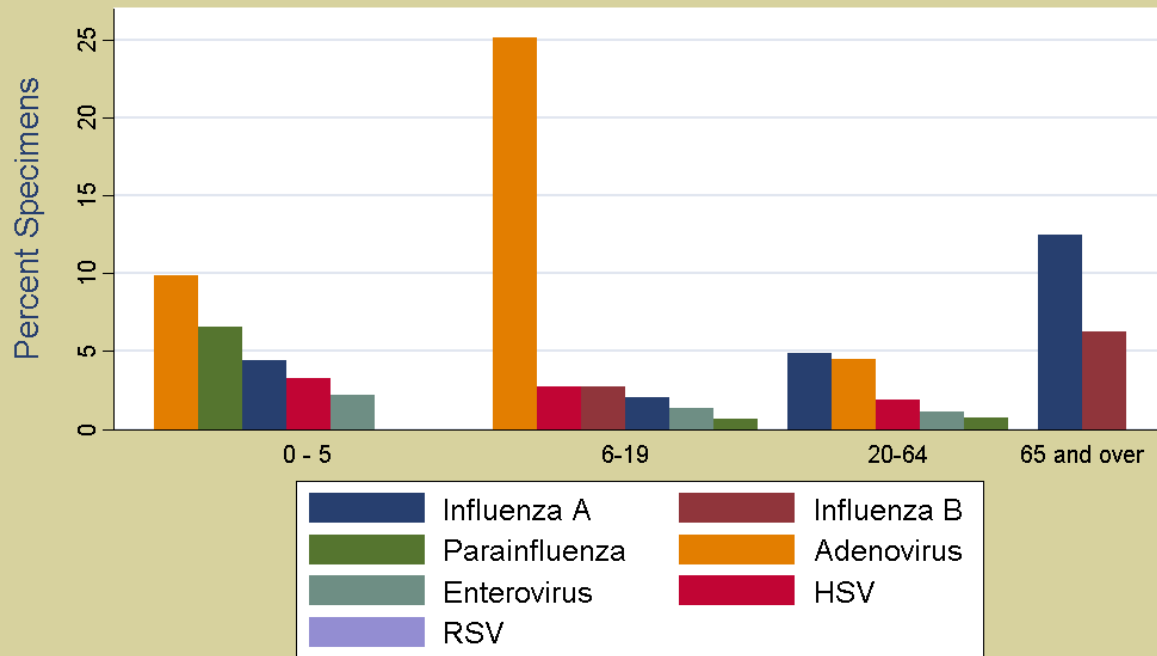
Table 4. Summary of Results of Recently Processed Specimens

Location	Results of Specimens Processed during current week*				
	Negative	Influenza A	Influenza B	Adenovirus	Other
ALL SITES	95	21	0	4	4
NORTH AMERICA	77	16	0	4	4
PACOM	9	5	0	0	0
EUCOM	9	0	0	0	0
CENTCOM	0	0	0	0	0
SOUTH AMERICA	0	0	0	0	0

Comments: * Specimens were **received** in months of November to December. Influenza A and B totals include recent subtyping results.

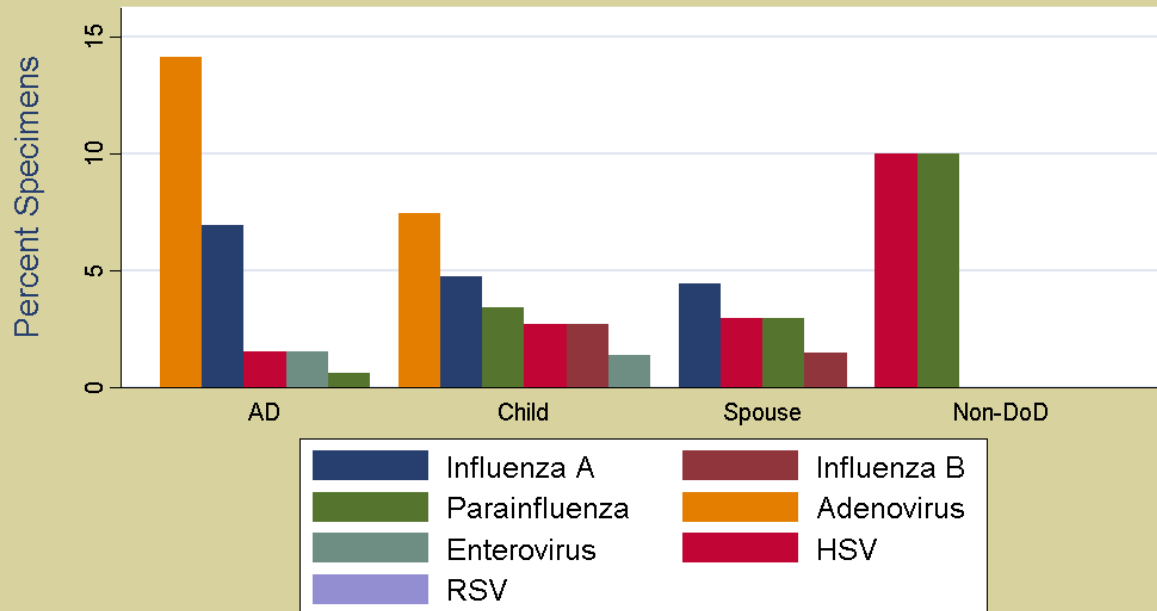
DEMOGRAPHIC GRAPHS

Percent of Respiratory Virus Submissions by Age Group
Influenza Season 2004-2005



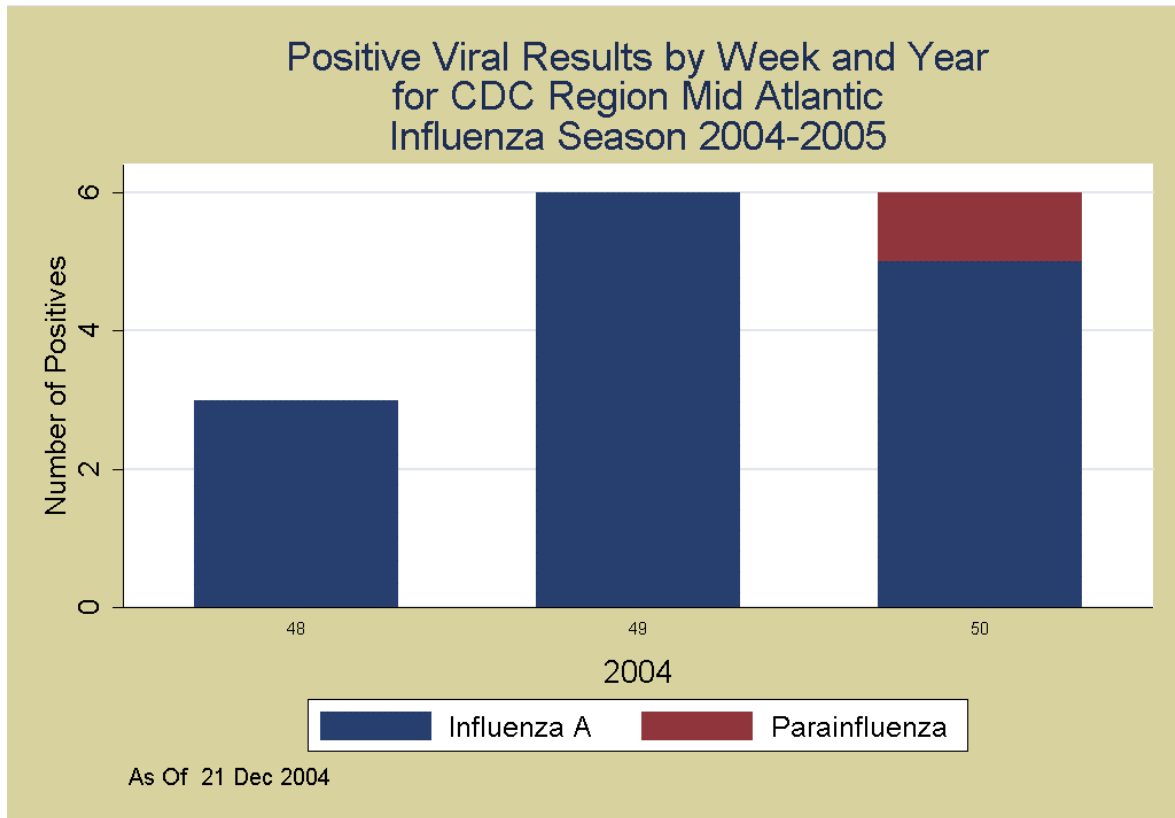
As of 21 Dec 2004

Percent of Respiratory Virus Submissions
by Family Military Prefix
Influenza Season 2004-2005

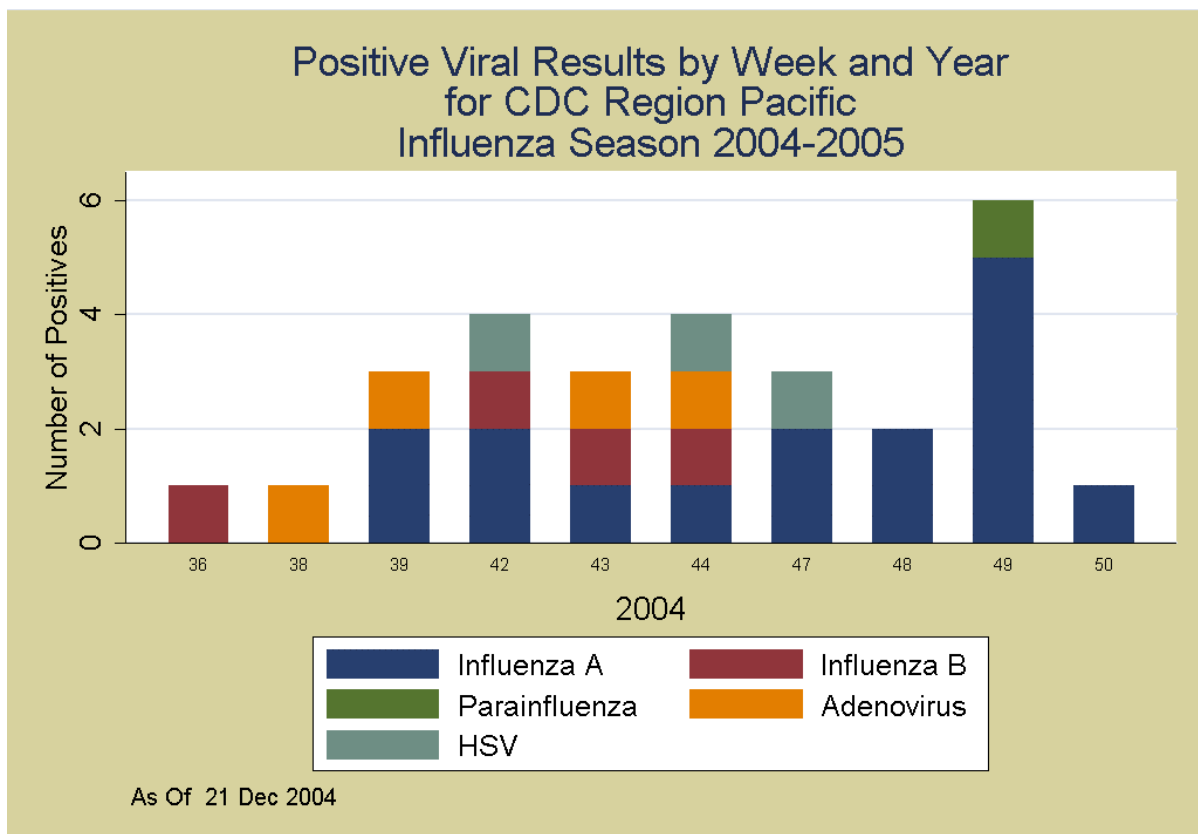


As of 21 Dec 2004

CDC REGIONAL GRAPHS



Influenza specimens from Ft Drumm, NY and McGuire AFB, NJ



Influenza specimens from Eielson AFB, Elmendorf AFB, and Ft Wainwright in AK; Bremerton NAS, WA; Travis AFB, CA; Tripler AMC, HI